TRANSMITTAL OF FORMAL DRAWINGS				Docket No. BUR9-1999-0235-US1 47		
In Re Application Of:	ATEN 1	2 200 5016			# 3/2/ 3/2/	
Serial No.	Filing Date	atch No.	Examin	er	Art Unit	
09/617,908	7/14/00	ARIO				
Invention: METHO	D AND APPARATUS	FOR MAKING INTEGR	ATED CIRCUITS	S HAVING	GATED	
CLOCK TREES						
		Address to	, 400			
Assistant Commissioner for Patents Washington, D.C. 20231				RECEIVED		
_		<b>3</b> , 1				
				JAN 3 0 2001		
Transmitted herewith are:				OFFICE OF PETITIONS		
	of formal drawing(s) f	or this application.		011102 01		
Eagh sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawing.						
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The state of the s						
district to						
m. 0 4	O Free and					
or carry	Signature		Dated: 12/7/0	0	····	
Mark R. Ferran	Signulare					
Reg. No. 46,695 Schmeiser, Olsen & Watts						
3 Lear Jet Lane, Suite 201					nd attached formal drawings	
Latham, NY 12110 (518) 220-1850				ce as first clas	ss mail under 37 C.F.R. 1.8	
(510) 220-1030			and addressed to Washington, D.C.		Commissioner for Patents,	

Kim Dwileski

Typed or Printed Name of Person Mailing Correspondence

Signature of Person Mailing Correspondence

B B

-1305

Gate B -

CLOCK SOURCE

1203

-1301

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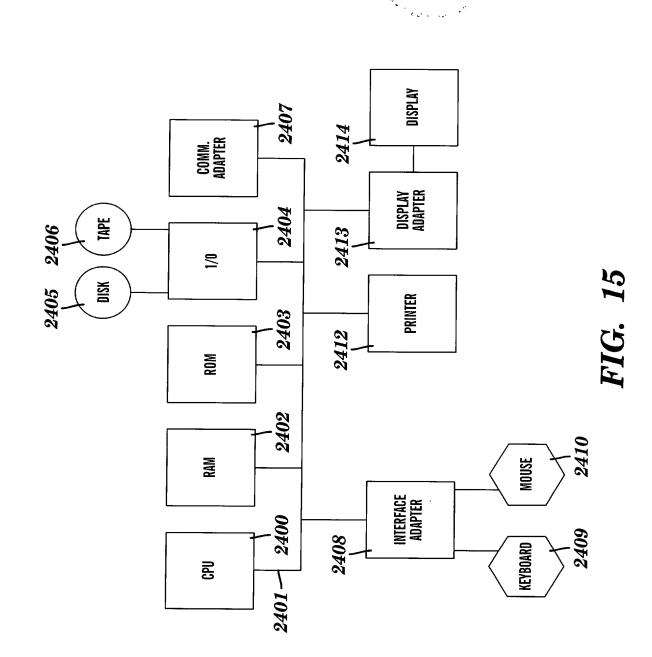
FIG. 13

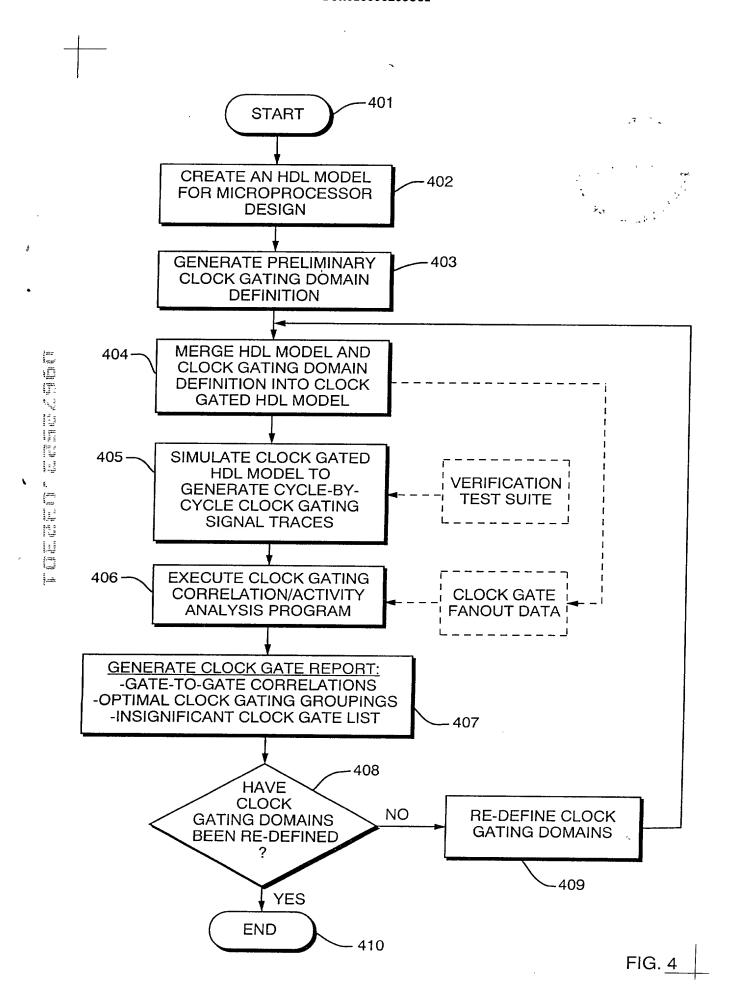
28/29 BUR919990235US1

FIG. 14

**END** 







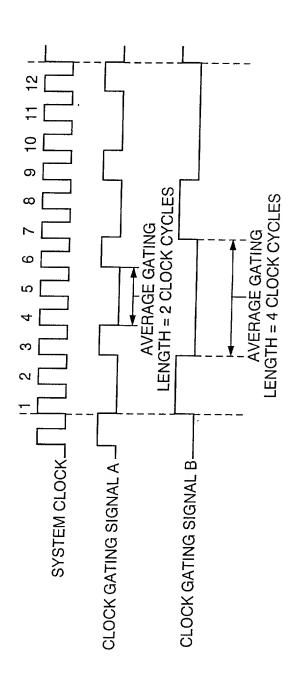


FIG. 5

605

## ClockGate Analysis

603 Calculated number of clockgates: 3
57 Vectors analyzed
Writing activity file clock\_groups.aet



ClockGate Report

 Clock
 Activity
 %Latches ((1-activity) \* (%Latches\*100))

 CLKG\_A
 0.316
 0.40
 27.4

 CLKG\_B
 0.316
 0.50
 34.2

 CLKG\_C
 0.947
 0.10
 0.5

Useless CLOCKGATES as defined by threshold: 5

Signal CLKG\_C has a usefullness metric of 0.5

Writing Correlation File clock\_groups.cor

Correlated CLOCKGATE Groups at threshold: 0.9

GROUP 1 Correlation=

CLKG\_A: activity 0.316

CLKG\_B: activity 0.316

CLOCK\_GROUPS.COR file

# Signal Correlation Report

C C C L L L K K K G G G G

CLKG\_A 1.00 0.95 0.37 CLKG\_B 0.95 1.00 0.37 609 CLKG C 0.37 0.37 1.00

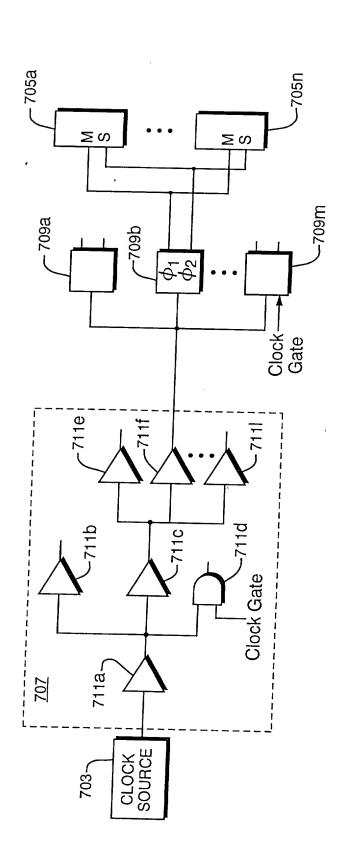
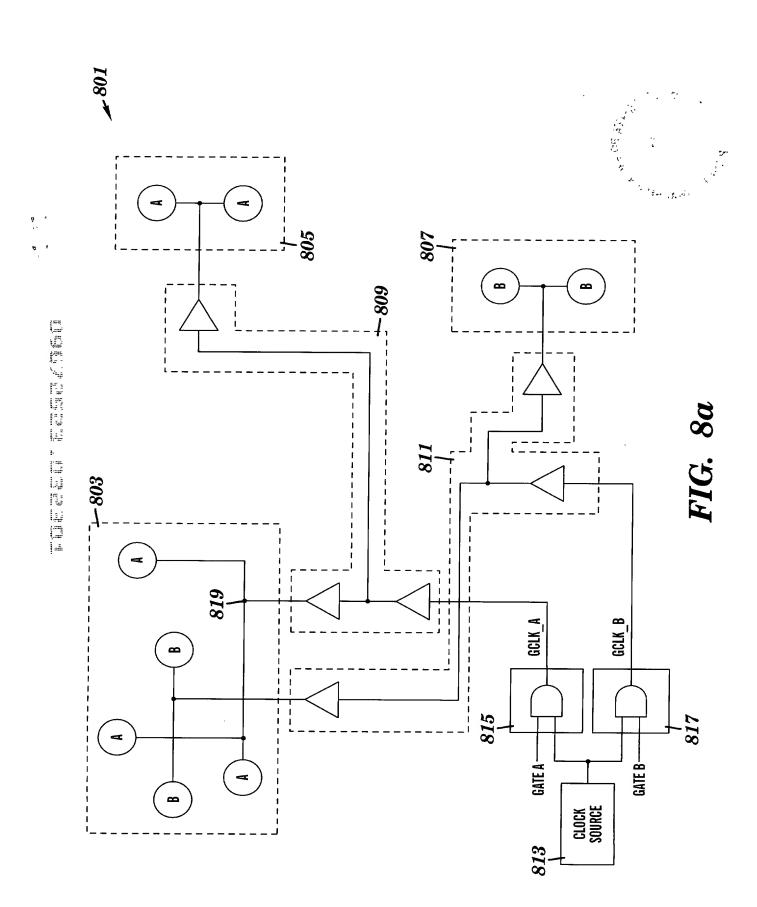
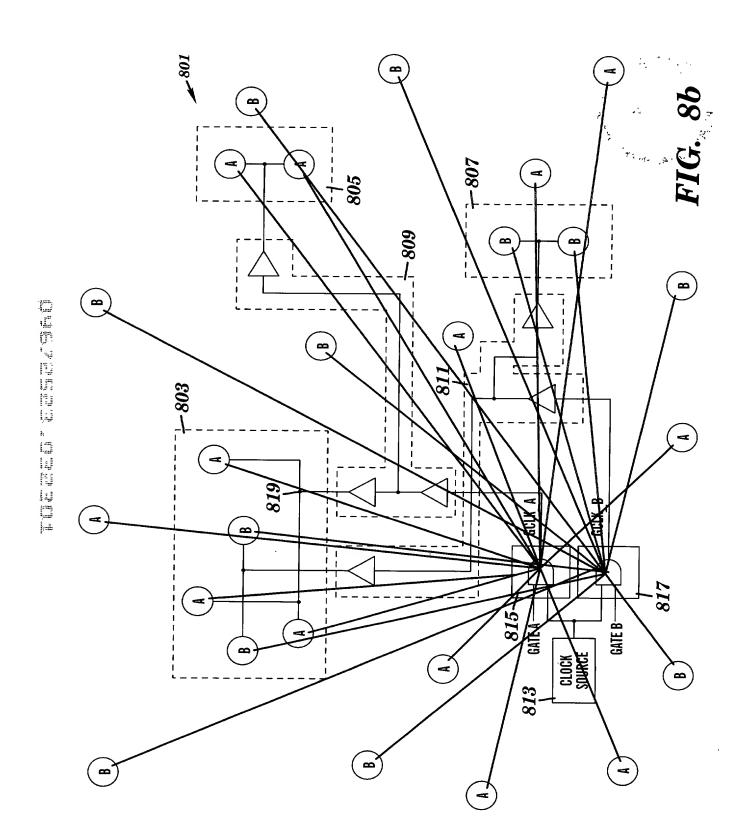
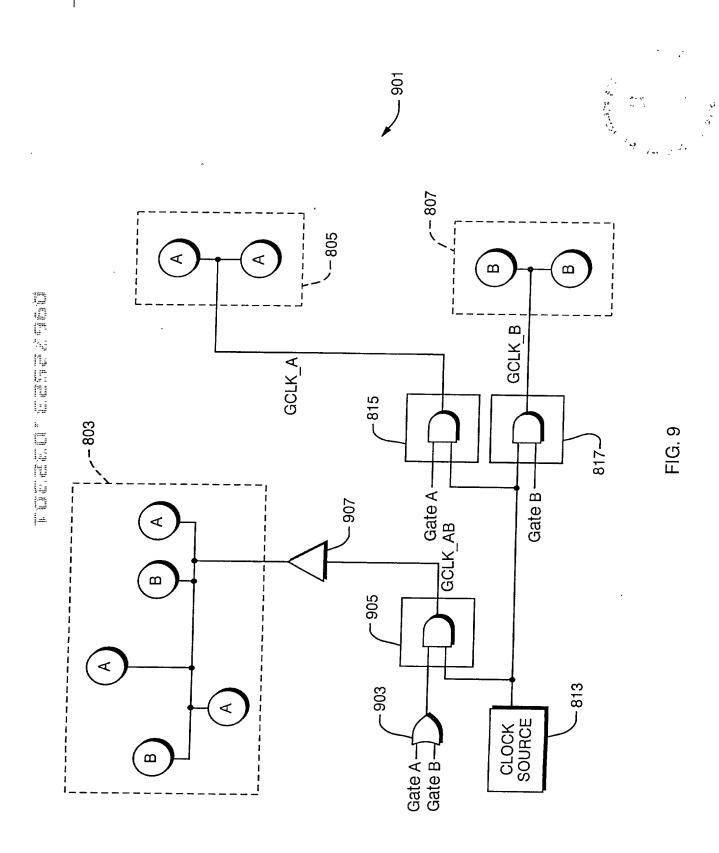


FIG. 7







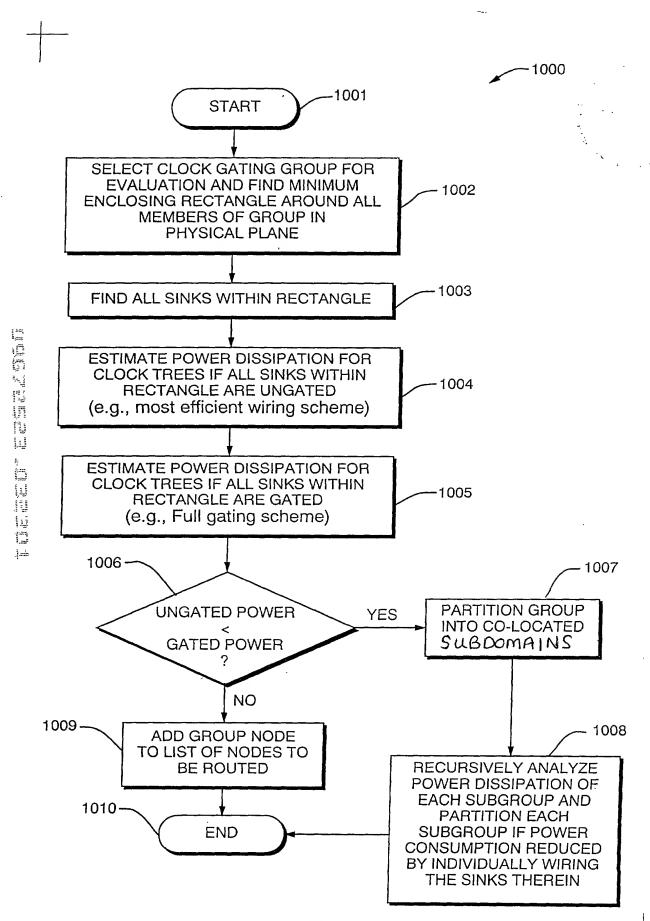
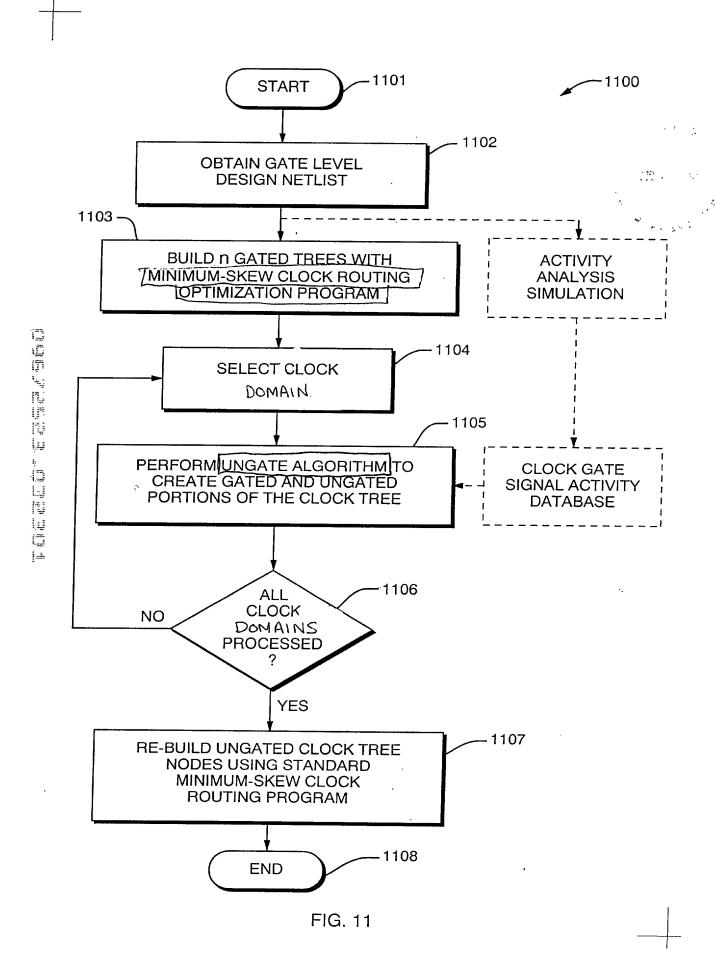


FIG. 10



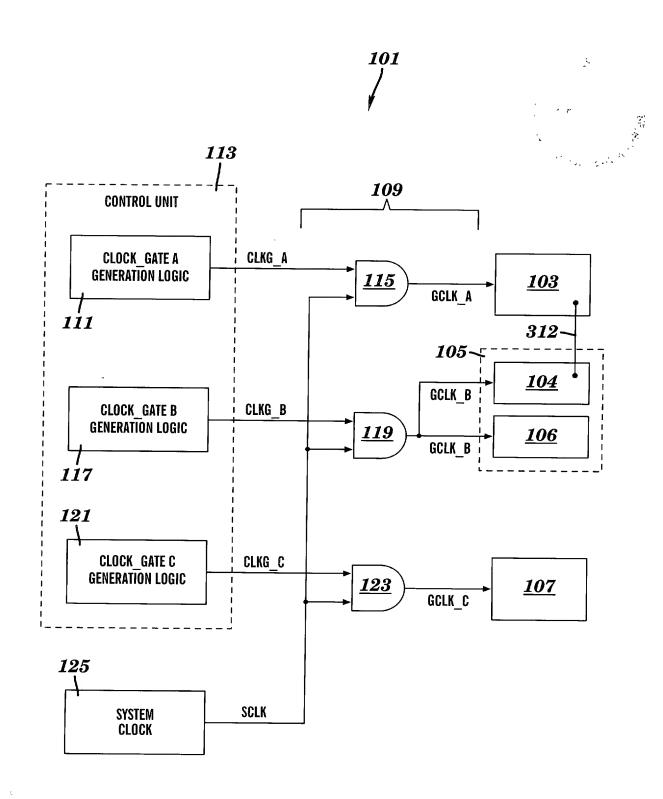


FIG. 3b

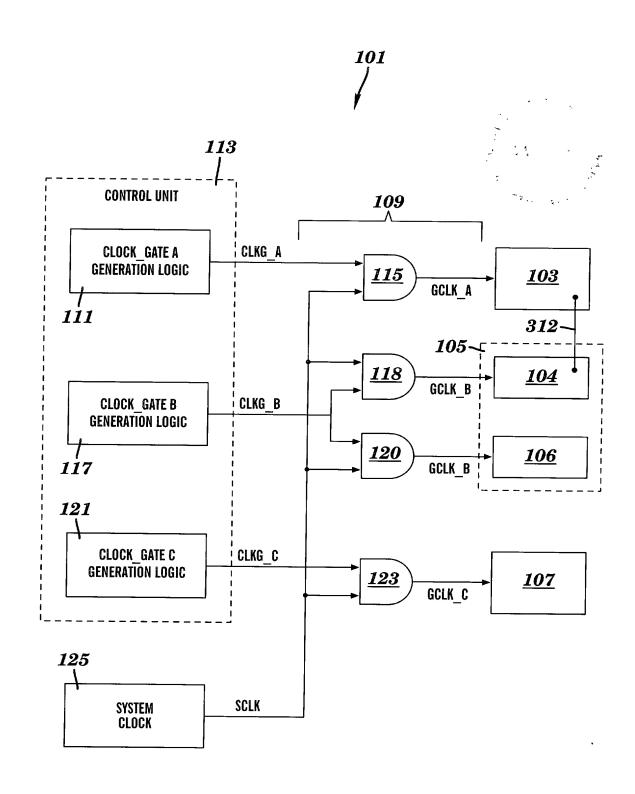


FIG. 3c

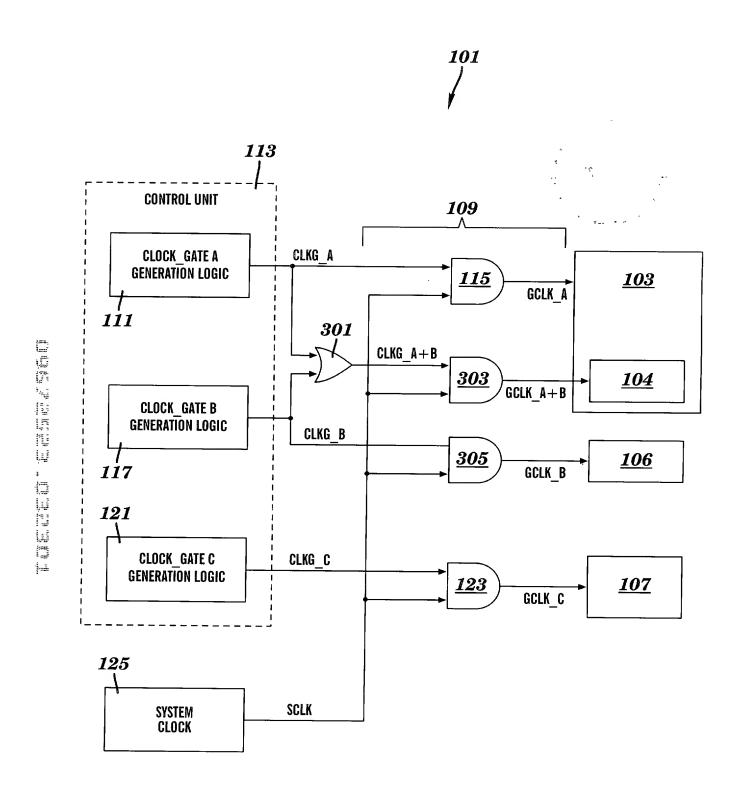


FIG. 3d

## 1/29 D. HATHAWAY BUR919990235US1 RMK

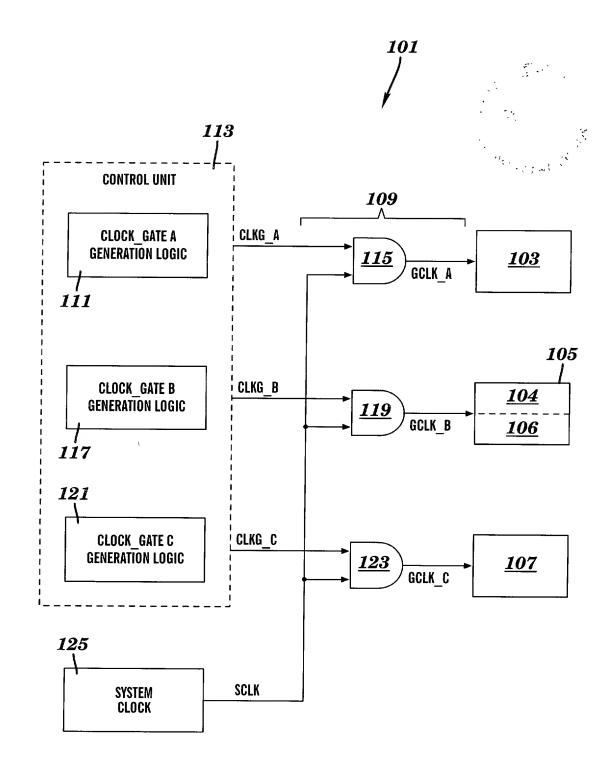


FIG. 1a

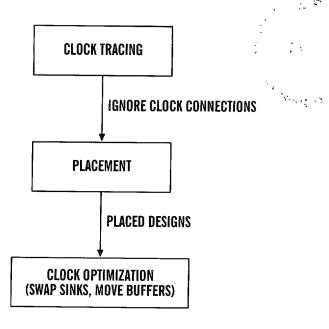


FIG. 1b

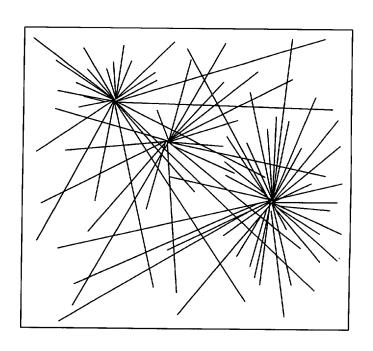


FIG. 1c

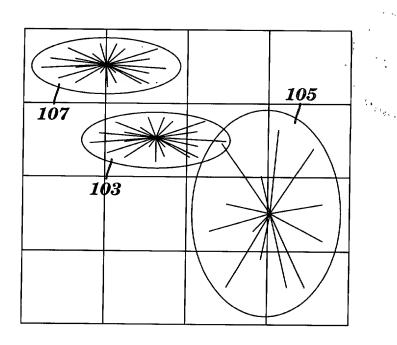


FIG. 2a-i

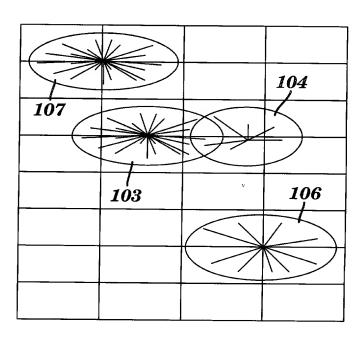


FIG. 2a-ii

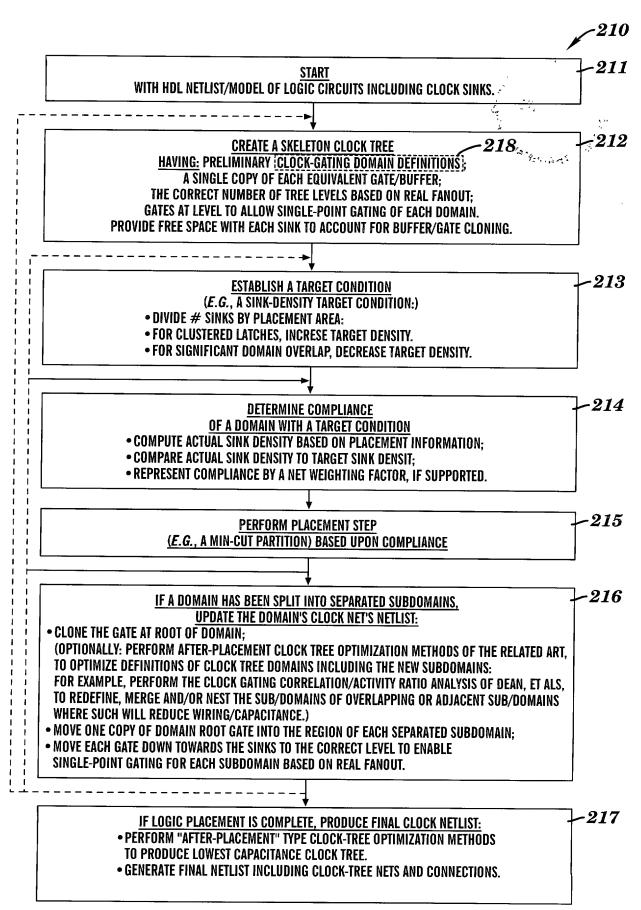


FIG. 2b

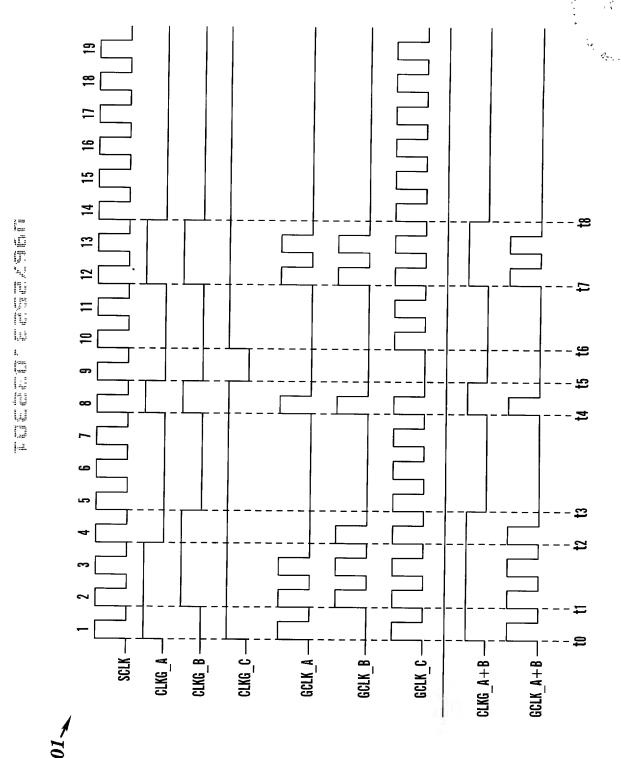


FIG. 2c

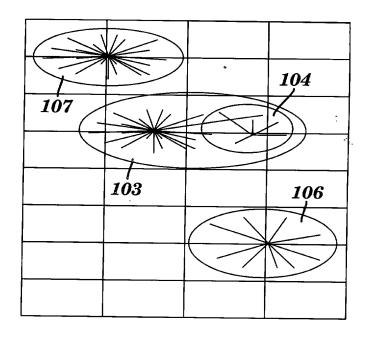


FIG. 2d

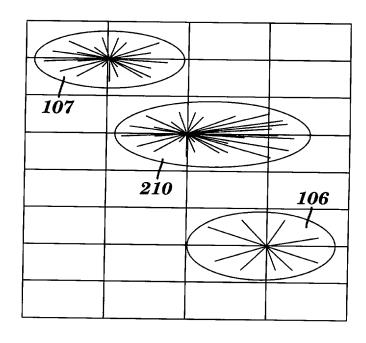


FIG. 2e

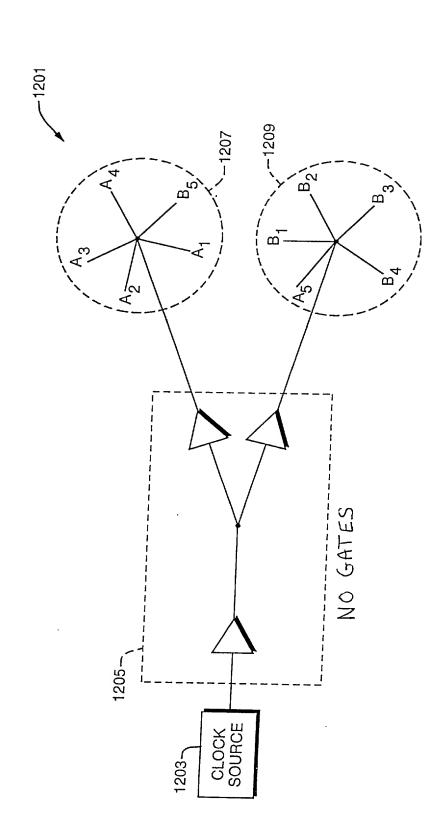


FIG. 12

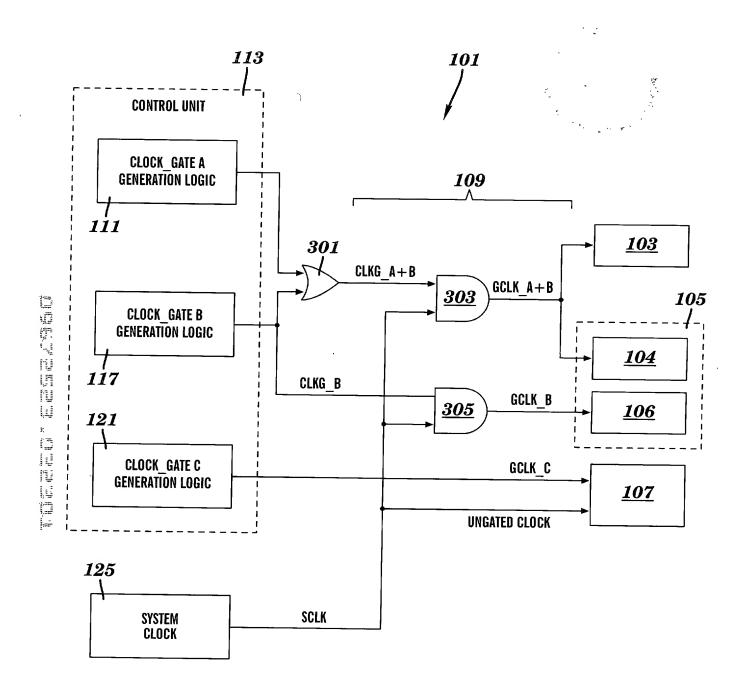


FIG. 3e

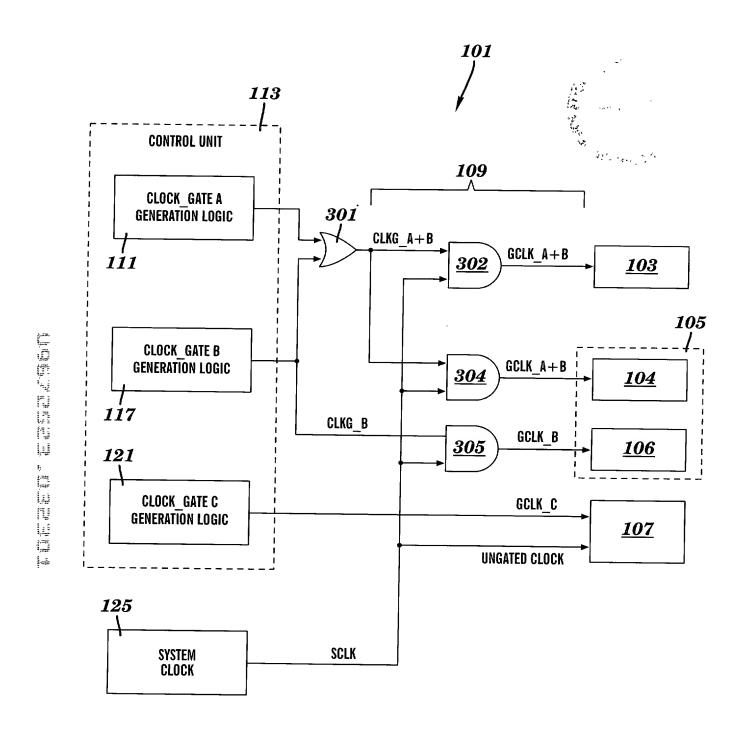


FIG. 3f

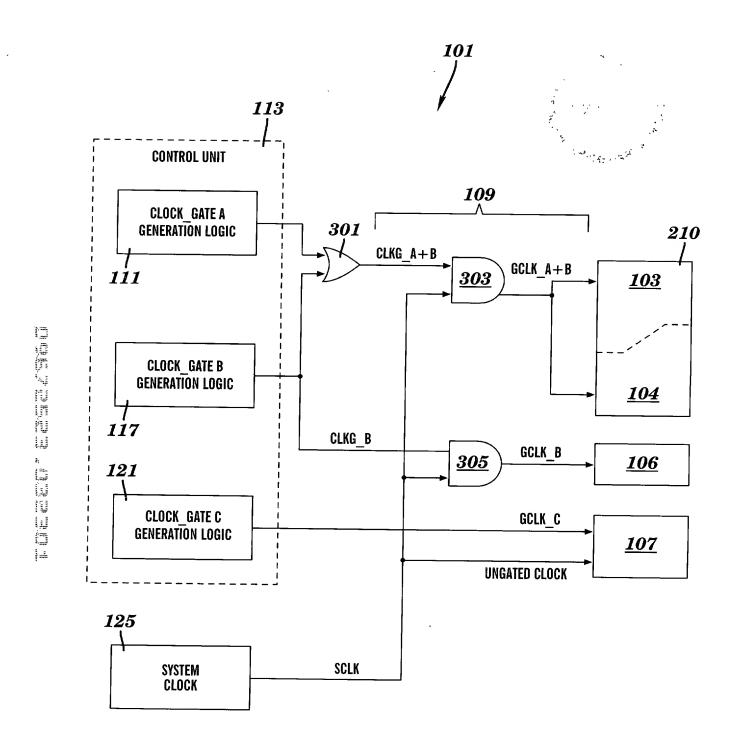


FIG. 3g

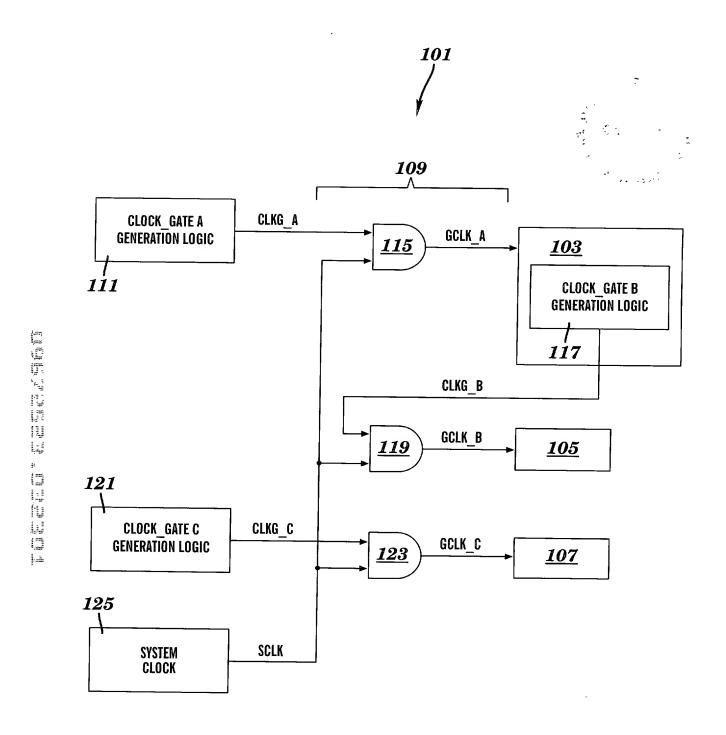


FIG. 3h

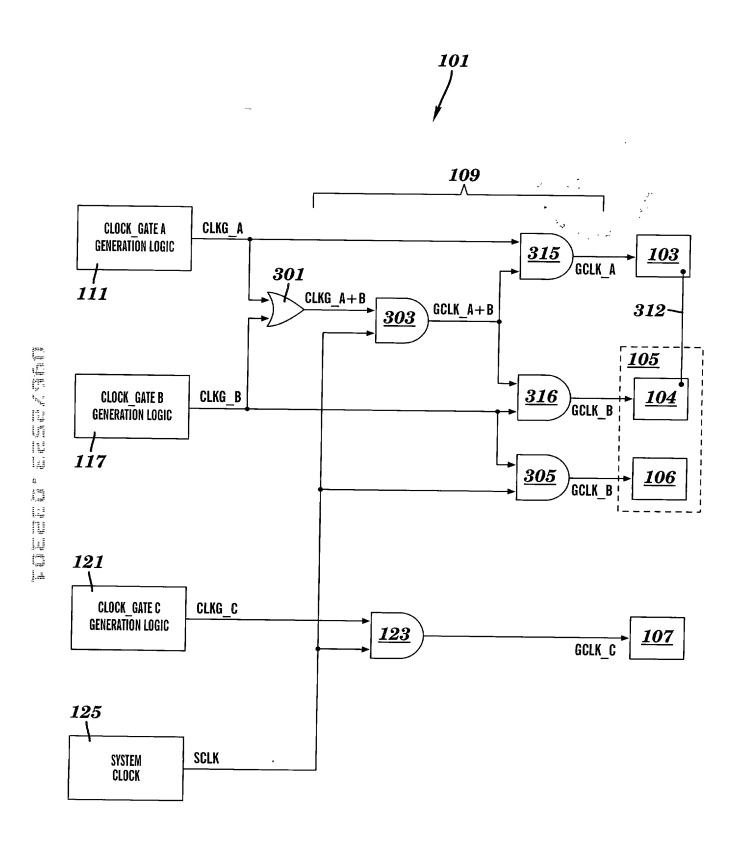


FIG. 3i

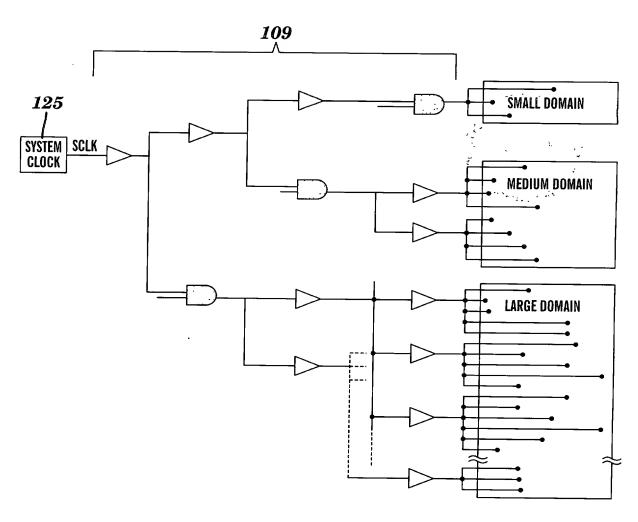


FIG. 2f

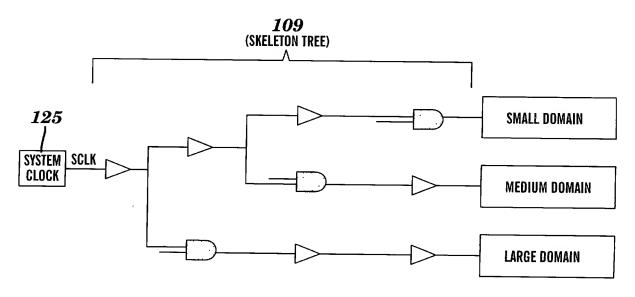


FIG. 2g

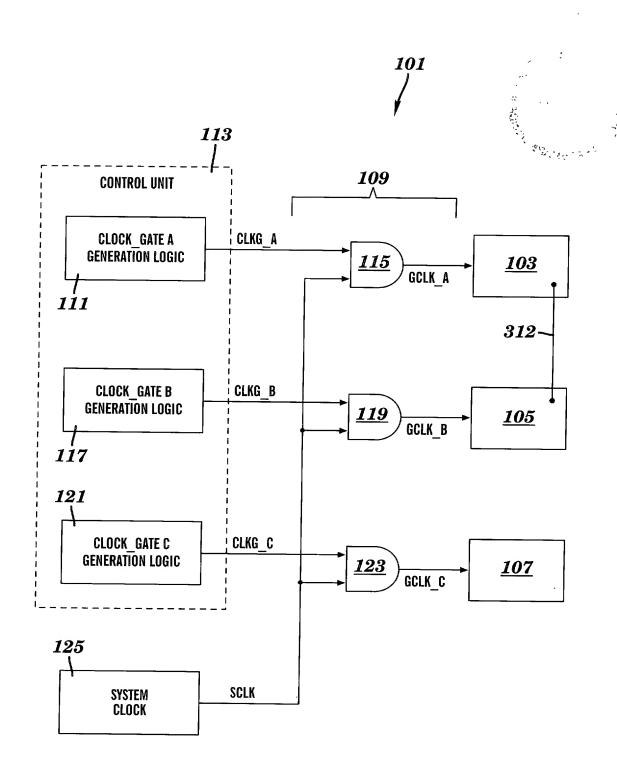


FIG. 3a